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"The Falling of Pine Leaves," by B. T. Galloway.

"Some Methods employed in the Investigation of parasitic Fungi and other Organisms," by B. T. Galloway.

The committee appointed at the Rochester meeting to consider and report on the advisability of forming a national botanical society presented a majority report disapproving the formation of such an organization at the present time, and Prof. C. R. Barnes presented a minority report recommending its immediate establishment by the selection by the Club of a committee of ten who shall select fifteen others, these twenty-five to be the charter members of the society. The minority report was accepted, and a committee of ten selected by ballot.

The Committee on Nomenclature was authorized to proceed with the publication of the check-list, matters concerning it not determined by the Club were referred to the committee with power, and the committee increased to nine members by the appointment of Professors Edward L. Greene and Wm. Trelease.

Officers for the next meeting were elected as follows: President, Prof. Douglas H. Campbell; Vice President, Prof. Daniel C. Eaton; Secretary and Treasurer, Mr. W. T. Swingle.

N. L. BRITTON.

#### **Titles of Papers read before the Section of Botany, A. A. A. S., Madison Meeting, August, 1893.**

Photography as an Instrument for recording the microscopic Characters of Micro-organisms in artificial Cultures, by G. F. Atkinson.

Symbiosis in the Roots of Ophioglossaceæ, by G. F. Atkinson.

Observations on a Rust affecting the Leaves of the Jersey or Scrub Pine, by B. T. Galloway.

Prophylla of Gramineæ, by W. J. Beal.

A new injection Needle for the Study of the Lower Plants, by J. Christian Bay.

On the Food of Green Plants, by Charles R. Barnes.

Results of some recent Work on Rust of Wheat, by B. T. Galloway.

Comparative Study of the Structure and Junction of the Sporangia of Ferns in the Dispersion of Spores, by G. F. Atkinson.

The Solandi Printing applied to Botanical Work, by Byron D. Halsted.

Present Aspects of the Nomenclature Question, by N. L. Britton.

Lichens of the Black Hills, by T. A. Williams.

The Bibliography of American Botanical Literature, by J. Christian Bay.

Notes on the Development of *Marattia Douglassii*, by Douglas H. Campbell.

The fructification of *Juniperus*, by John G. Jack.

The Roots of Orchids, by M. B. Thomas.

Preliminary Notes on some Chromogenic Bacteria of the Ames Flora, by L. H. Pammel.

Further Observations on the Fermentation Tube with special Reference to Anærobiosis, Reduction and Gas Production, by Theobald Smith.

Two new and destructive Diseases of Cucurbits, by Erwin F. Smith.

Preliminary Statement concerning Botanical Laboratories and Instruction in American Universities and Colleges, by Conway MacMillan.

On the Quantitative Analysis of the Colors of Flowers and Foliage, by J. H. Pillsbury.

The minute Structure and Development of the Motile Organ in the Leaf of the Red-bud, by S. G. Wright.

The Shrinkage of Leaves in drying, by Byron D. Halsted.

Distribution of the Gramineæ in the United States, by S. M. Tracy.

A Consideration of Species based on the Theory of Evolution, by N. L. Britton.

A Revision of the Genus *Physcomitrium*, by Elizabeth G. Britton.

Deviation in Development due to the use of Unripe Seeds, by J. C. Arthur.

The principal Diseases of *Citrus* Fruits now being studied at Eustis, Fla., by W. T. Swingle.

*Cephaluros mycoidea* and *Phyllosiphon* sp., two Parasitic Algæ, new to North America, by W. T. Swingle.

An Analysis of the Conditions affecting the Distribution of Plants, by Frederick V. Coville.

A Sclerotium Disease of Plants, by P. H. Rolfs.

Notes on *Ræstelia pyrata*, by L. H. Pammel.

Crossing of Cucurbits, by L. H. Pammel.

A case of poisoning by the Wild Parsnip, *Cicuta maculata*, by L. H. Pammel.

*Ulota Americana*, Mitten, and *Orthotrichum Americanum*, Beauv., by Elizabeth G. Britton.

### Palæobotanical Papers read before the Section of Geology and Geography, A. A. A. S., Madison, Wisconsin, 1893.

PAPERS BY JOS. F. JAMES.

“*Remarks on the Genus Arthrophyucus.*”—Attention is called to the fact that this organism was originally described by Harlan in 1831, under the name *Fucoides Alleghaniensis*. In 1838 Conrad changed it to *Fucoides Harlani*, and when, in 1852, Hall changed the generic name to *Arthrophyucus*, the specific name given by Conrad was retained, and this is the one under which it has been generally known. In accordance with the rules of priority, it should appear as *Arthrophyucus Alleghaniensis* (Harlan).

“*Studies in Problematic Organisms; the Genus Fucoides.*”—A revision of the classifications under which various problematic organisms have been placed in the attempt to differentiate them or to identify them with living algæ genera. The author outlines a new scheme of classification based upon recent researches, which have proved many of the so-called algæ to be inorganic markings, tracks of animals, etc., and have also added to the more exact determination of the affinities of many which are true algæ.

“*The Value of Pseudo-algæ as Geological Guides.*”—The author concludes that, inasmuch as the evidence of the organic nature of many of the so-called fossil algæ is defective, any deductions based upon the presence of many described species are valueless and misleading, and that they are not safe geologic guides.